



# OZZY OZONE

## DEFENDER OF OUR PLANET



3. ISSUE:  
**OZZY  
GOES  
POLAR**



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THE OZZY OZONE CHARACTER IS A REGISTERED TRADEMARK OF THE GOVERNMENT OF BARBADOS. UNEP WOULD LIKE TO THANK THE GOVERNMENT OF BARBADOS FOR ITS PERMISSION TO USE THIS CHARACTER.

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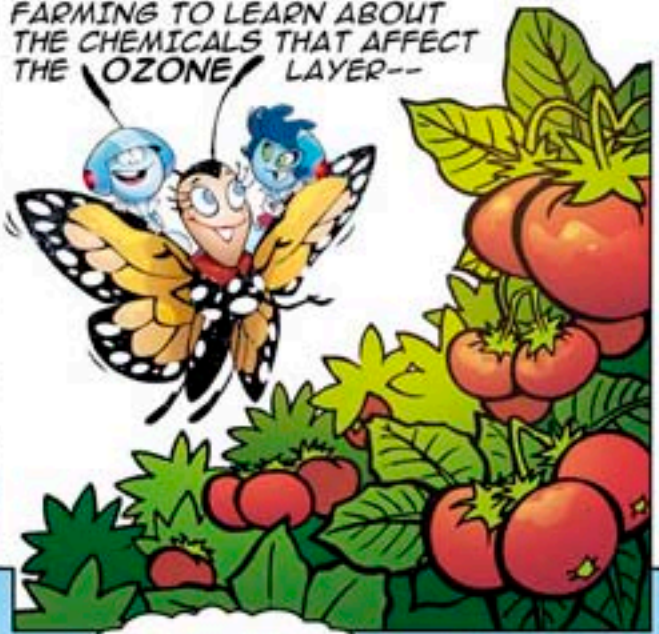


OUR PLANET EARTH IS  
DEFENDED BY OZZY OZONE  
AND HIS FRIENDS.

THESE SMALL OZONE  
MOLECULES ARE ALWAYS  
READY TO PROTECT AND  
HELP ALL LIVING-BEINGS  
ON EARTH.



AFTER OZZY OZONE AND ZOE WENT  
FARMING TO LEARN ABOUT  
THE CHEMICALS THAT AFFECT  
THE OZONE LAYER--

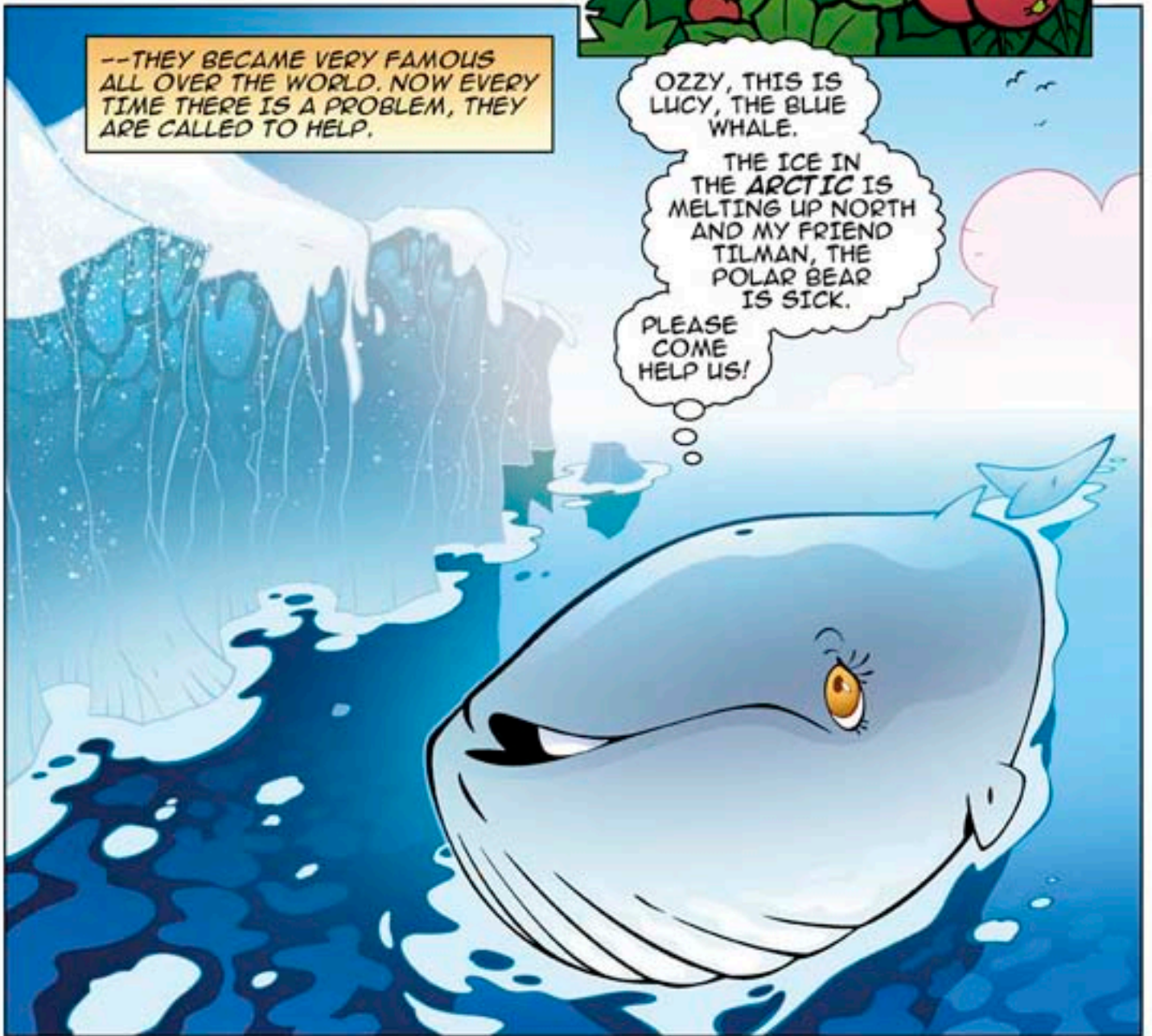


--THEY BECAME VERY FAMOUS  
ALL OVER THE WORLD. NOW EVERY  
TIME THERE IS A PROBLEM, THEY  
ARE CALLED TO HELP.

OZZY, THIS IS  
LUCY, THE BLUE  
WHALE.

THE ICE IN  
THE ARCTIC IS  
MELTING UP NORTH  
AND MY FRIEND  
TILMAN, THE  
POLAR BEAR  
IS SICK.

PLEASE  
COME  
HELP US!





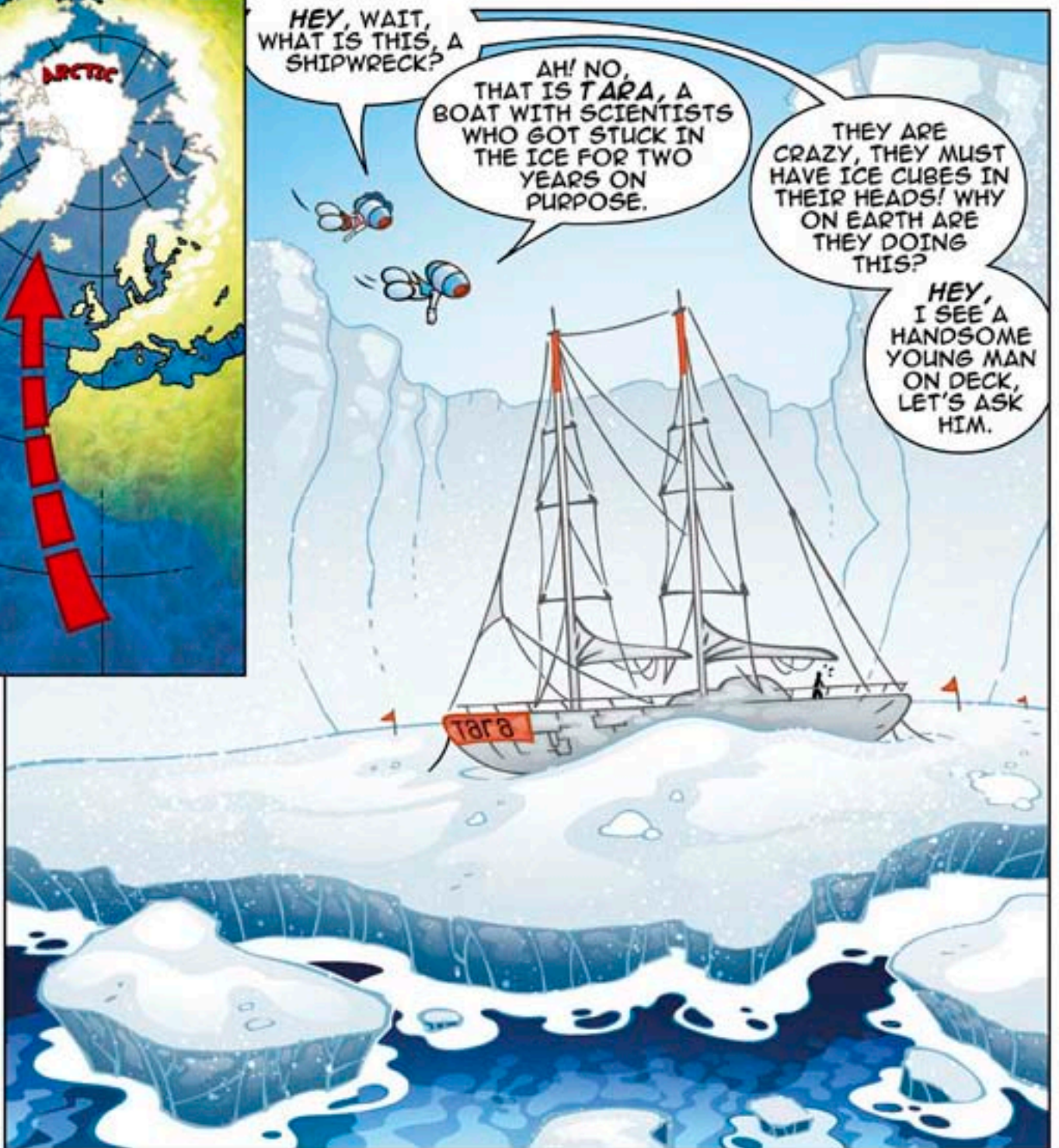


HEY, WAIT, WHAT IS THIS, A SHIPWRECK?

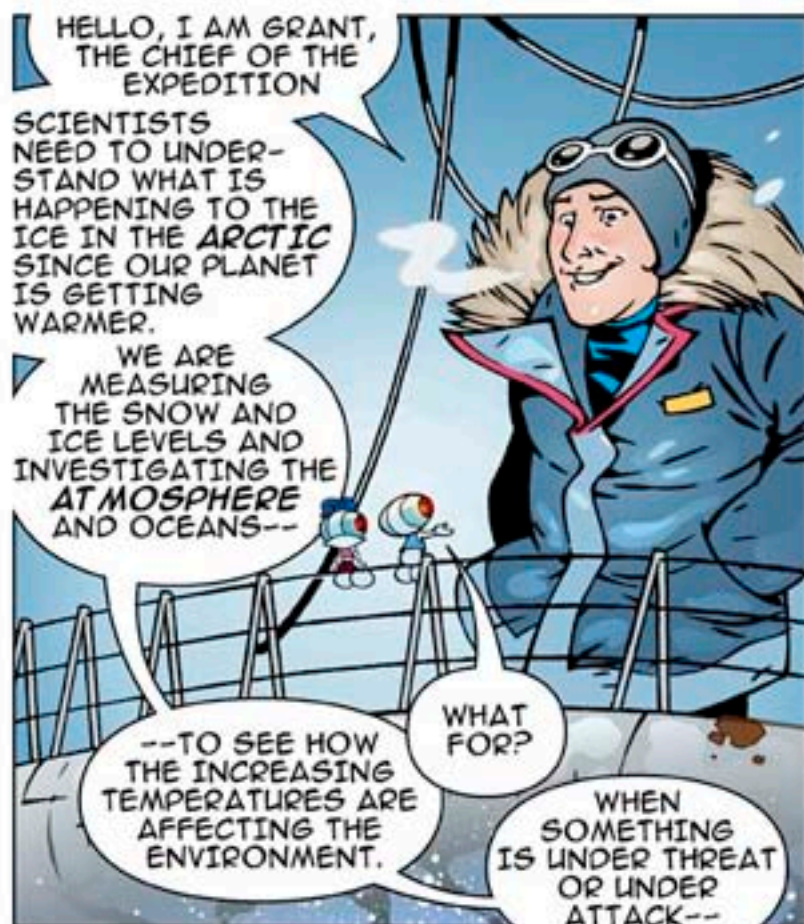
AH! NO, THAT IS **TARA**, A BOAT WITH SCIENTISTS WHO GOT STUCK IN THE ICE FOR TWO YEARS ON PURPOSE.

THEY ARE CRAZY, THEY MUST HAVE ICE CUBES IN THEIR HEADS! WHY ON EARTH ARE THEY DOING THIS?

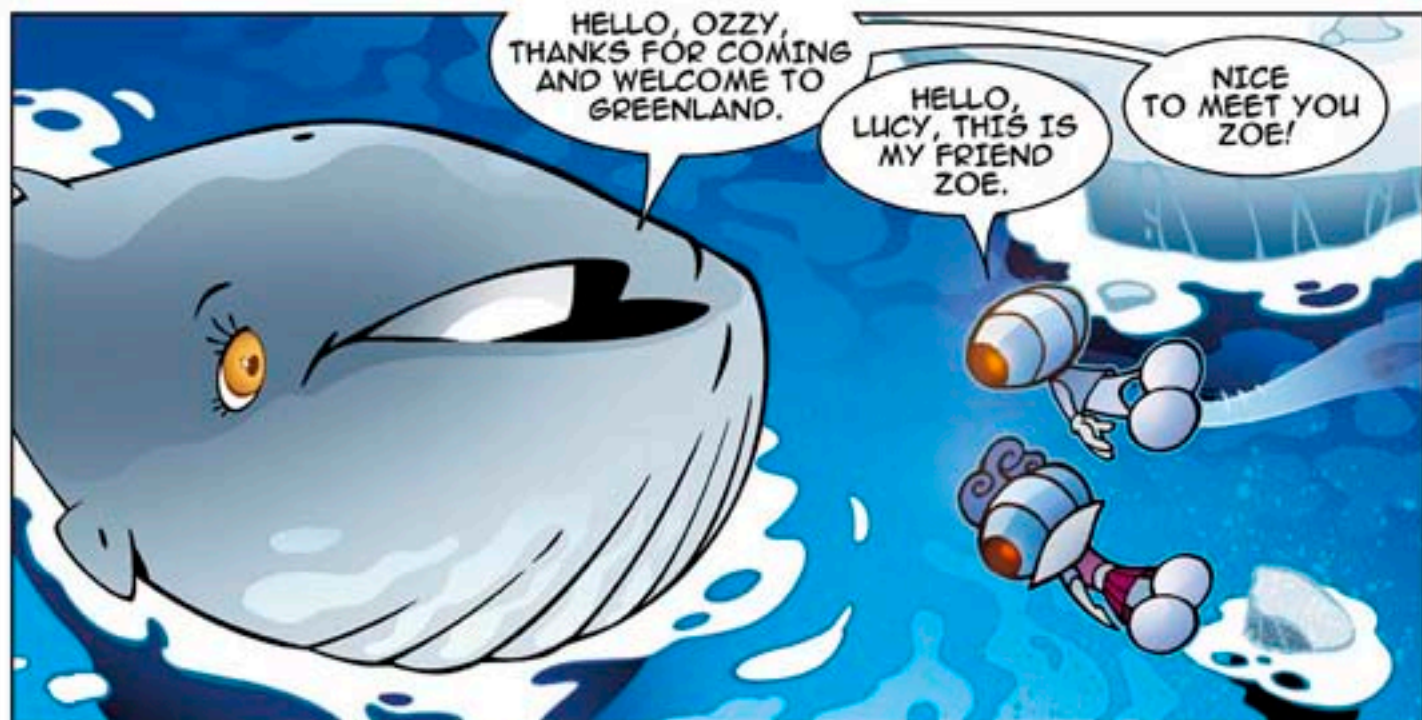
HEY, I SEE A HANDSOME YOUNG MAN ON DECK, LET'S ASK HIM.







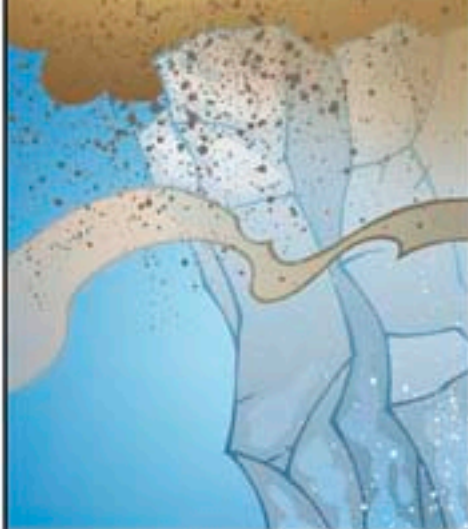




FOR MOST OF HISTORY, THE AIR ABOVE THE **ARCTIC** AND ICE IN THE **GLACIERS** WERE CLEAN...



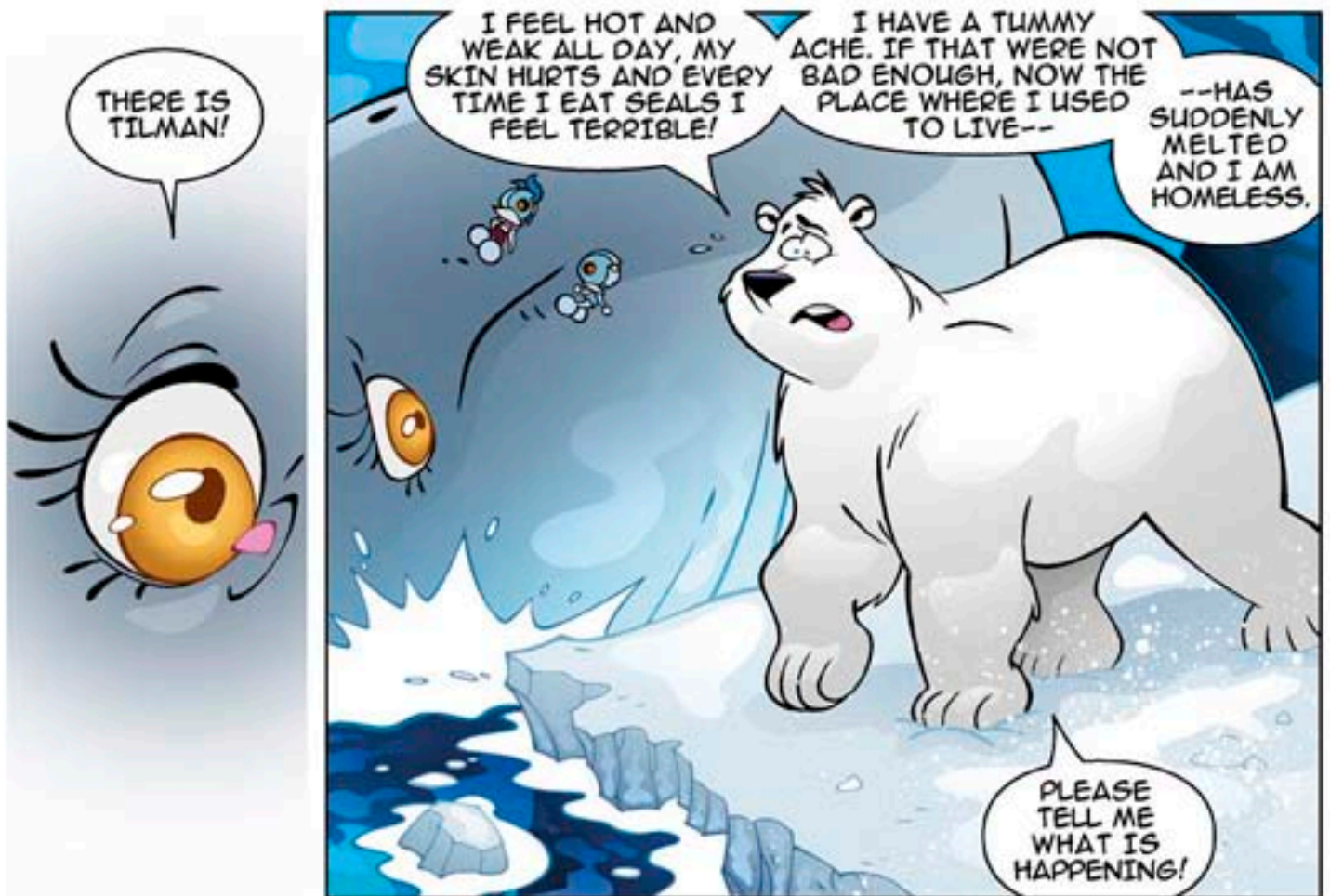
THEN, IN RECENT YEARS, SOME STRANGE MAN-MADE SUBSTANCES SUDDENLY STARTED APPEARING HERE IN THE **ATMOSPHERE** POLLUTING EVERYTHING.



THE ICE AND SNOW HAVE STARTED TO MELT!







THE ICE IN **GLACIERS** IS THREATENED BECAUSE OF CHEMICALS THAT EMITTED INTO THE **ATMOSPHERE** SUCH AS **GREENHOUSE GASES** INCLUDING **CHLORO-FLUOROCARBONS (CFCs)**.

THOSE TOGETHER ARE CAUSING SEVERE PROBLEMS IN OUR **ATMOSPHERE** AND **STRATOSPHERE**.

HOW COME?

THE TEMPERATURE OF THE EARTH IS INCREASING DUE TO THE HIGH CONCENTRATION OF **GREENHOUSE GASES** SUCH AS THE **CO<sub>2</sub>** AND **METHANE**.

THOSE GASES ARE EMITTED BY INDUSTRIES, POWER PLANTS THAT MAKE OUR ELECTRICITY, CARS, PLANES AND WASTE DUMPS...

THE EFFECT OF **GLOBAL WARMING** IS MOST VISIBLE IN THE **POLAR REGIONS**, RESULTING IN THE MELTING OF THE **GLACIERS**.

WHAT IS **CO<sub>2</sub>**?

IT IS A CHEMICAL GAS KNOWN AS **CARBON DIOXIDE**. IT IS FOUND NATURALLY IN OUR **ATMOSPHERE** AND IT IS PRODUCED BY ALMOST EVERY LIVING BEING.





THE PROBLEM COMES WHEN THIS GAS IS PRODUCED BY MODERN SOCIETY IN BIG QUANTITIES, IT GOES INTO THE **ATMOSPHERE** AND RAISES THE TEMPERATURE OF THE PLANET. THIS HIGHER TEMPERATURE THREATENS LIFE ON EARTH.

**CFCs** ARE SUBSTANCES THAT DESTROY THE **OZONE** LAYER, WHICH FILTERS THE DANGEROUS **UV-B** RAYS THAT COME FROM THE SUN; AND EVEN MAKE A HOLE ON IT.

THESE OZONE HOLES OVER THE **ARCTIC** AND **ANTARCTICA** ARE ENORMOUS.

WHAT IS AN **OZONE** HOLE?

IT IS AN AREA IN THE UPPER **ATMOSPHERE** THAT HAS LITTLE OR NO **OZONE**--

--BECAUSE OF **CFCs** AND OTHER **OZONE** DEPLETING SUBSTANCES (**ODS**).

WHERE DO THE **OZONE** DEPLETING SUBSTANCES COME FROM?

THOSE ARE GASES, INCLUDING **CFCs**, THAT COME FROM SOME AIR CONDITIONERS, SOME PESTICIDES AND FIRE EXTINGUISHERS.


THIS IS THE REASON WHY YOUR SKIN HURTS; YOU HAVE BEEN EXPOSED TOO MUCH TO THE **UV-B** RAYS, WHICH IS CAUSED WHEN **CFCs** AND OTHER CHEMICALS DEplete THE **OZONE** LAYER OVER OUR HEADS. THIS ALSO AFFECTS THE LIFE OF FISH AND OUR FRIEND **LUCY**.

IN THE PAST, THE PROBLEM OF **OZONE** DEPLETION AND CLIMATE CHANGE WERE PRESENTED AS TWO DIFFERENT PROBLEMS. WE KNOW NOW THAT THEY ARE CLOSELY RELATED.

MAN-MADE **CFCs** ARE ALSO POTENT **GREENHOUSE** GASES AND SIGNIFICANTLY CONTRIBUTE TO THE **GLOBAL WARMING**.

IT'S WORRYING...





I ALSO HEARD THAT THE WATER AND FISH ARE POLLUTED BY CHEMICALS WITH THE FUNNY-SOUNDING NAME OF "POPS" (PERSISTENT ORGANIC POLLUTANTS).

THOSE ARE TOXIC SUBSTANCES THAT CAUSE ADVERSE EFFECTS ON THE HEALTH OF PEOPLE AND ANIMALS.

POPS GET CONCENTRATED WHEN BIG FISH EAT SMALL FISH...



THIS IS ALSO ANOTHER CAUSE OF YOUR SICKNESS, TILMAN. THE SEALS THAT YOU ARE EATING HAVE EATEN FISH, WHICH ARE ACCUMULATING IN YOUR FAT TISSUE, WEAKENING YOUR BODY'S IMMUNE SYSTEM.

SLOURP!



DON'T WORRY. I WILL PRESCRIBE YOU A TREATMENT BASED ON NATURAL HERBS TO DETOXYFY AND WE WILL FIND YOU FOOD YOU CAN SAFELY EAT.

YOU WILL RECOVER SOON.





WHAT IS CLEAR IS THAT CFCs, GREEN HOUSE GASES AND POPS ARE AFFECTING OUR ATMOSPHERE, OUR LAND AND OUR FOOD AND ULTIMATELY OUR HEALTH.

SCIENTISTS AND GOVERNMENTS NOW ARE TRYING TO FIND WAYS TO ADDRESS THESE PROBLEMS THROUGH THE CO-ORDINATION OF THE MONTREAL PROTOCOL, THE KYOTO PROTOCOL AND THE STOCKHOLM CONVENTION.



WE HAVE ALSO FOUND THAT IF WE CONTINUE LETTING POLLUTANTS ESCAPE INTO OUR ATMOSPHERE--

--ALL LIFE ON EARTH WILL BE SEVERELY COMPROMISED IN THE UPCOMING YEARS.



WHAT? OZZY, ZOE, WE NEED TO DO SOMETHING QUICKLY!

LET'S GO TO ANTARCTICA TO VISIT MY FRIEND CAMILO.



I HAVE HEARD THAT THE OZONE HOLE IS EVEN BIGGER THERE.

MAYBE HE KNOWS MORE.





HI CAMILO! PLEASE TELL US  
WHAT IS HAPPENING HERE AND  
WHAT WE CAN DO TO HELP  
REDUCE THE IMPACT OF  
BOTH **OZONE DEPLETION**  
AND **CLIMATE**  
**CHANGE.**

LISTEN FRIENDS,  
HERE IN **ANTARCTICA**,  
WE HAVE A BIGGER **OZONE**  
HOLE THAN IN THE **ARCTIC**.  
ALSO **GLACIERS** ON THE  
COASTS AND ICE SHEETS  
ARE MELTING DUE  
TO **GLOBAL**  
**WARMING.**

FRANK  
THE FROG?!  
BUT, WHAT ARE YOU  
DOING HERE? FROGS  
DO NOT LIVE IN  
**ANTARCTICA!**

BUT SEE  
WHO ELSE IS  
HERE TO  
HELP...

SEE MY SPECIAL  
COSTUME? I AM ON  
A SPECIAL MISSION  
AS YOU TO HELP  
PROTECT THE EARTH  
FROM **GLOBAL**  
**WARMING.**

I HAVE BEEN  
DISCUSSING  
WITH CAMILO  
DIFFERENT WAYS  
TO DO IT.

WE HAVE A GLOBAL PROBLEM.  
IT IS THE CLIMATE CHANGE,  
BUT WE HAVE THE POWER TO  
MAKE A CHANGE. WE ACT,  
WE DON'T JUST TALK.

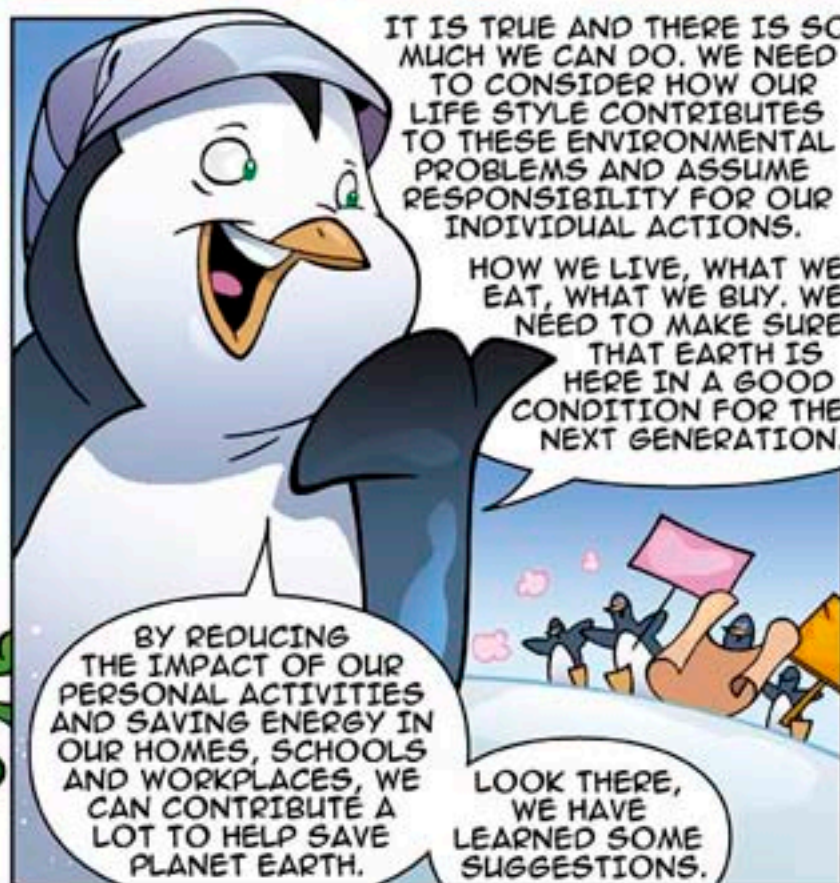
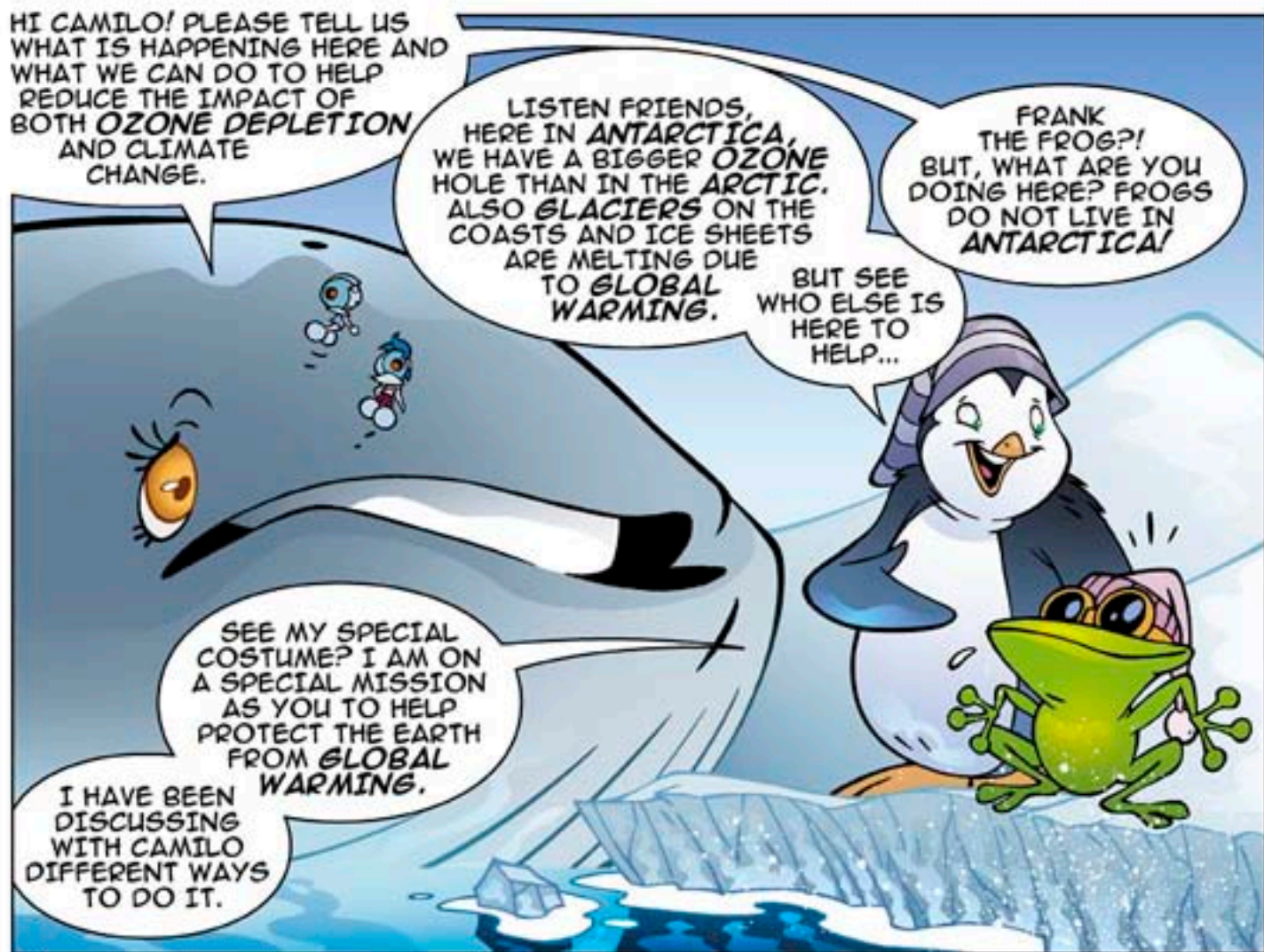
WE CONTROL  
THE CLIMATE  
CHANGE.

IT IS TRUE AND THERE IS SO  
MUCH WE CAN DO. WE NEED  
TO CONSIDER HOW OUR  
LIFE STYLE CONTRIBUTES  
TO THESE ENVIRONMENTAL  
PROBLEMS AND ASSUME  
RESPONSIBILITY FOR OUR  
INDIVIDUAL ACTIONS.

HOW WE LIVE, WHAT WE  
EAT, WHAT WE BUY. WE  
NEED TO MAKE SURE  
THAT EARTH IS  
HERE IN A GOOD  
CONDITION FOR THE  
NEXT GENERATION.

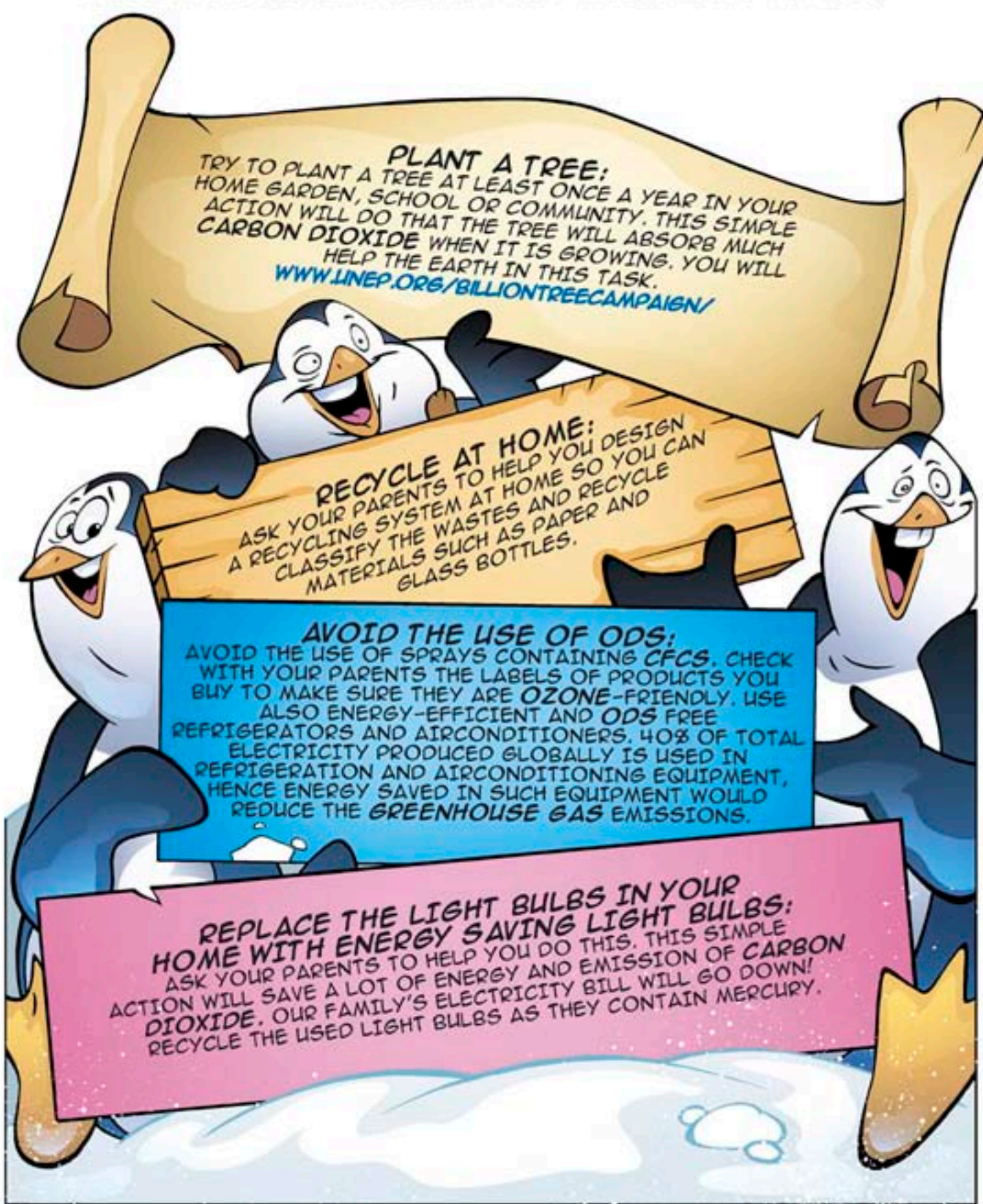
BY REDUCING  
THE IMPACT OF OUR  
PERSONAL ACTIVITIES  
AND SAVING ENERGY IN  
OUR HOMES, SCHOOLS  
AND WORKPLACES, WE  
CAN CONTRIBUTE A  
LOT TO HELP SAVE  
PLANET EARTH.

LOOK THERE,  
WE HAVE  
LEARNED SOME  
SUGGESTIONS.





**SIMPLE ACTIONS YOU CAN DO YOURSELF WITH THE SUPPORT OF YOUR PARENTS TO REDUCE THE IMPACT OF GLOBAL WARMING AND OZONE LAYER DEPLETION: (PLEASE DISCUSS EACH OF THESE ACTIVITIES WITH THEM AND FIND THE BEST WAYS TO DO IT).**



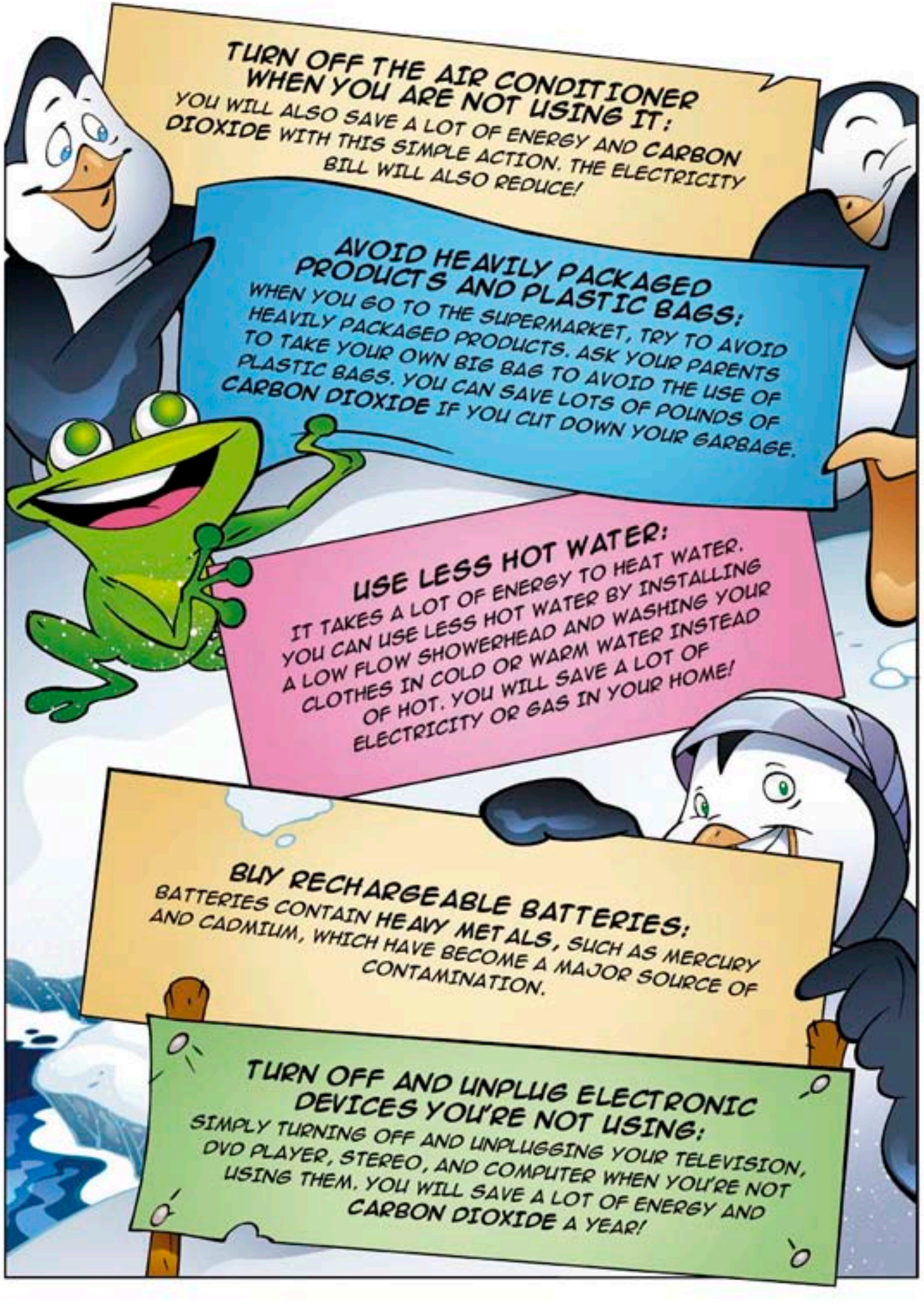
**PLANT A TREE:**  
TRY TO PLANT A TREE AT LEAST ONCE A YEAR IN YOUR HOME GARDEN, SCHOOL OR COMMUNITY. THIS SIMPLE ACTION WILL DO THAT THE TREE WILL ABSORB MUCH CARBON DIOXIDE WHEN IT IS GROWING. YOU WILL HELP THE EARTH IN THIS TASK.  
[WWW.UNEP.ORG/BILLIONTREECAMPAIGN/](http://WWW.UNEP.ORG/BILLIONTREECAMPAIGN/)

**RECYCLE AT HOME:**  
ASK YOUR PARENTS TO HELP YOU DESIGN A RECYCLING SYSTEM AT HOME SO YOU CAN CLASSIFY THE WASTES AND RECYCLE MATERIALS SUCH AS PAPER AND GLASS BOTTLES.

**AVOID THE USE OF ODS:**  
AVOID THE USE OF SPRAYS CONTAINING CFCs. CHECK WITH YOUR PARENTS THE LABELS OF PRODUCTS YOU BUY TO MAKE SURE THEY ARE OZONE-FRIENDLY. USE ALSO ENERGY-EFFICIENT AND ODS FREE REFRIGERATORS AND AIRCONDITIONERS. 40% OF TOTAL ELECTRICITY PRODUCED GLOBALLY IS USED IN REFRIGERATION AND AIRCONDITIONING EQUIPMENT, HENCE ENERGY SAVED IN SUCH EQUIPMENT WOULD REDUCE THE GREENHOUSE GAS EMISSIONS.

**REPLACE THE LIGHT BULBS IN YOUR HOME WITH ENERGY SAVING LIGHT BULBS:**  
ASK YOUR PARENTS TO HELP YOU DO THIS. THIS SIMPLE ACTION WILL SAVE A LOT OF ENERGY AND EMISSION OF CARBON DIOXIDE. OUR FAMILY'S ELECTRICITY BILL WILL GO DOWN! RECYCLE THE USED LIGHT BULBS AS THEY CONTAIN MERCURY.





**TURN OFF THE AIR CONDITIONER  
WHEN YOU ARE NOT USING IT:**  
YOU WILL ALSO SAVE A LOT OF ENERGY AND CARBON  
DIOXIDE WITH THIS SIMPLE ACTION. THE ELECTRICITY  
BILL WILL ALSO REDUCE!

**AVOID HEAVILY PACKAGED  
PRODUCTS AND PLASTIC BAGS:**  
WHEN YOU GO TO THE SUPERMARKET, TRY TO AVOID  
HEAVILY PACKAGED PRODUCTS. ASK YOUR PARENTS  
TO TAKE YOUR OWN BIG BAG TO AVOID THE USE OF  
PLASTIC BAGS. YOU CAN SAVE LOTS OF POUNDS OF  
CARBON DIOXIDE IF YOU CUT DOWN YOUR GARBAGE.

**USE LESS HOT WATER:**  
IT TAKES A LOT OF ENERGY TO HEAT WATER.  
YOU CAN USE LESS HOT WATER BY INSTALLING  
A LOW FLOW SHOWERHEAD AND WASHING YOUR  
CLOTHES IN COLD OR WARM WATER INSTEAD  
OF HOT. YOU WILL SAVE A LOT OF  
ELECTRICITY OR GAS IN YOUR HOME!

**BUY RECHARGEABLE BATTERIES:**  
BATTERIES CONTAIN HEAVY METALS, SUCH AS MERCURY  
AND CADMIUM, WHICH HAVE BECOME A MAJOR SOURCE OF  
CONTAMINATION.

**TURN OFF AND UNPLUG ELECTRONIC  
DEVICES YOU'RE NOT USING:**  
SIMPLY TURNING OFF AND UNPLUGGING YOUR TELEVISION,  
DVD PLAYER, STEREO, AND COMPUTER WHEN YOU'RE NOT  
USING THEM, YOU WILL SAVE A LOT OF ENERGY AND  
CARBON DIOXIDE A YEAR!

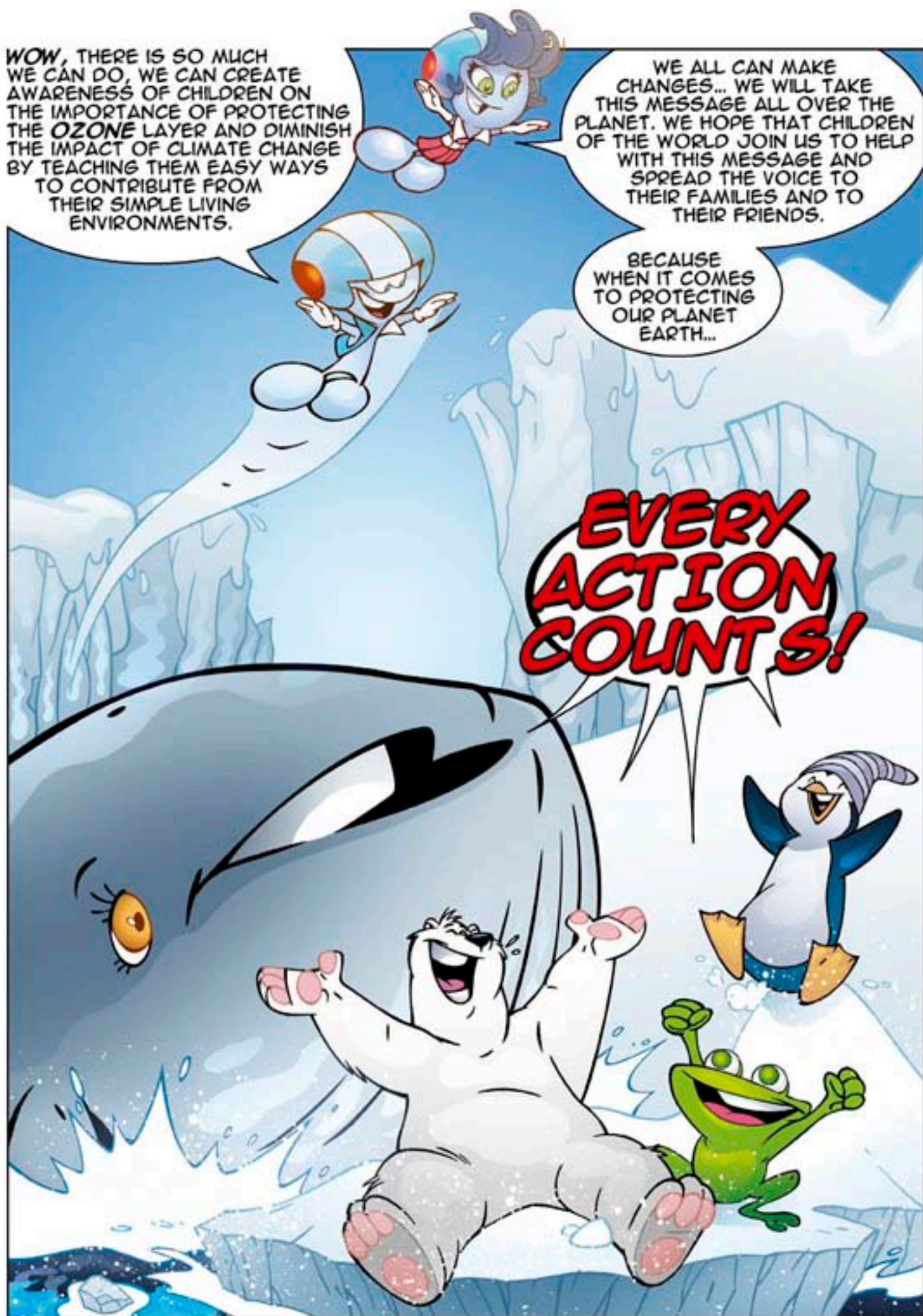


WOW, THERE IS SO MUCH WE CAN DO. WE CAN CREATE AWARENESS OF CHILDREN ON THE IMPORTANCE OF PROTECTING THE **OZONE** LAYER AND DIMINISH THE IMPACT OF CLIMATE CHANGE BY TEACHING THEM EASY WAYS TO CONTRIBUTE FROM THEIR SIMPLE LIVING ENVIRONMENTS.

WE ALL CAN MAKE CHANGES... WE WILL TAKE THIS MESSAGE ALL OVER THE PLANET. WE HOPE THAT CHILDREN OF THE WORLD JOIN US TO HELP WITH THIS MESSAGE AND SPREAD THE VOICE TO THEIR FAMILIES AND TO THEIR FRIENDS.

BECAUSE WHEN IT COMES TO PROTECTING OUR PLANET EARTH...

**EVERY ACTION COUNTS!**





## DEFINITION OF TERMINOLOGY

**ANTARCTICA:** A CONTINENT IN THE SOUTH POLAR REGION.

**ARCTIC:** THE NORTH POLAR REGION.

**ATMOSPHERE:** LAYERS OF AIR, COMPOSED OF GASES AND PARTICLES, SURROUNDING THE EARTH.

**CARBON DIOXIDE, (CO<sub>2</sub>):** GAS FORMED BY BURNING OR ROTTING OF MATERIALS CONTAINING CARBON AND BY BREATHING.

**CFCs:** CHLOROFLUOROCARBONS. A FAMILY OF MAN-MADE CHEMICALS THAT IF RELEASED DESTROY THE OZONE LAYER.

**GLACIER:** GLACIERS ARE MADE UP OF FALLEN SNOW THAT, OVER MANY YEARS, COMPRESSES INTO LARGE, THICKENED ICE MASSES.

**GLOBAL WARMING:** IS THE OBSERVED INCREASE IN THE AVERAGE TEMPERATURE OF THE EARTH'S NEAR-SURFACE AIR AND OCEANS.

**GREEN HOUSE GASES:** GASES THAT WARM THE EARTH BY TRAPPING HEAT IN THE ATMOSPHERE, WHICH LEADS TO GLOBAL WARMING. SOME GREENHOUSE GASES CAN OCCUR NATURALLY IN THE ATMOSPHERE, WHILE OTHERS RESULT FROM HUMAN ACTIVITIES. GREENHOUSE GASES INCLUDE CARBON DIOXIDE, METHANE, CFCs AND OTHERS.

**HEAVY METALS:** METALS OF HIGH DENSITY WHICH ARE OFTEN TOXIC TO HUMAN HEALTH.

**KYOTO PROTOCOL:** THE INTERNATIONAL UNITED NATIONS (UN) TREATY THAT IS HELPING TO FIGHT AGAINST GLOBAL WARMING AND CLIMATE CHANGE.

**MONTREAL PROTOCOL:** THE INTERNATIONAL UN TREATY THAT IS HELPING TO RESTORE AND PROTECT THE STRATOSPHERIC OZONE LAYER.

**OZONE:** A FORM OF OXYGEN WITH THREE ATOMS IN A MOLECULE; FOUND IN THE STRATOSPHERE AS A PROTECTIVE OZONE LAYER ("GOOD OZONE"), AND ALSO CLOSE TO THE GROUND AS A POLLUTANT IN SMOG ("BAD OZONE").

**OZONE DEPLETION:** DESTRUCTION OF THE STRATOSPHERIC OZONE LAYER CAUSED BY THE BREAKDOWN OF CERTAIN CHEMICALS (FOR EXAMPLE CHLOROFLUOROCARBONS).

**OZONE-DEPLETING SUBSTANCE(S) (ODS):** A COMPOUND THAT CONTRIBUTES TO STRATOSPHERIC OZONE DEPLETION. THOSE INCLUDE CFCs, HALONS, METHYL BROMIDE ETC.

**PESTICIDES:** CHEMICALS FOR KILLING INSECT PESTS THAT DAMAGE FOOD CROPS.

**POPS:** PERSISTENT ORGANIC POLLUTANTS ? CERTAIN CHEMICALS USUALLY FOUND IN PESTICIDES THAT POLLUTE THE ENVIRONMENT AND ARE ESPECIALLY HARMFUL AS THEY STAY AROUND FOR A LONG TIME.

**STOCKHOLM CONVENTION:** A GLOBAL TREATY TO PROTECT HUMAN HEALTH AND THE ENVIRONMENT FROM PERSISTENT ORGANIC POLLUTANTS (POPS).

**STRATOSPHERE:** THE REGION OF THE UPPER ATMOSPHERE (ABOUT 10KM TO ABOUT 50KM ABOVE OUR HEADS) WHERE THE OZONE LAYER IS FOUND.

**UV-B RAYS:** ULTRAVIOLET RAYS; AN INVISIBLE FORM OF ENERGY HARMFUL TO MOST LIVING ORGANISMS.

**THE TARA BOAT**  
IF YOU WANT TO  
LEARN MORE ABOUT THE  
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[www.taraexpeditions.org](http://www.taraexpeditions.org)  
AND CONTACT THE CAPTAIN  
OF THE EXPEDITION,  
MR. GRANT REDVERS AT THE  
FOLLOWING E MAIL:  
[contact@taraexpeditions.org](mailto:contact@taraexpeditions.org)

**FRANK THE FROG**  
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MORE ABOUT FRANK THE  
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VISIT THE WEBSITE:  
[eno.joensuu.fi](http://eno.joensuu.fi)

**INVITATION  
TO ALL CHILDREN**  
OZZY AND ZOE WOULD LIKE  
TO KNOW ALL IDEAS AND  
PROJECTS THAT YOU ARE DOING  
IN YOUR HOME, SCHOOL OR  
COMMUNITY TO HELP FIGHT  
AGAINST OZONE DEPLETION  
AND CLIMATE CHANGE. WE WOULD  
LIKE YOU TO WRITE TO US AND  
BECOME PART OF THE OZZY  
OZONE FAMILY.

PLEASE  
SEND US AN E MAIL  
TO: [ozzy@unep.fr](mailto:ozzy@unep.fr)  
OR WRITE TO THE  
FOLLOWING ADDRESS  
TO RECEIVE THE NEXT  
ISSUES OF THIS  
MAGAZINE AND  
UPDATES ON THE  
OZZY OZONE  
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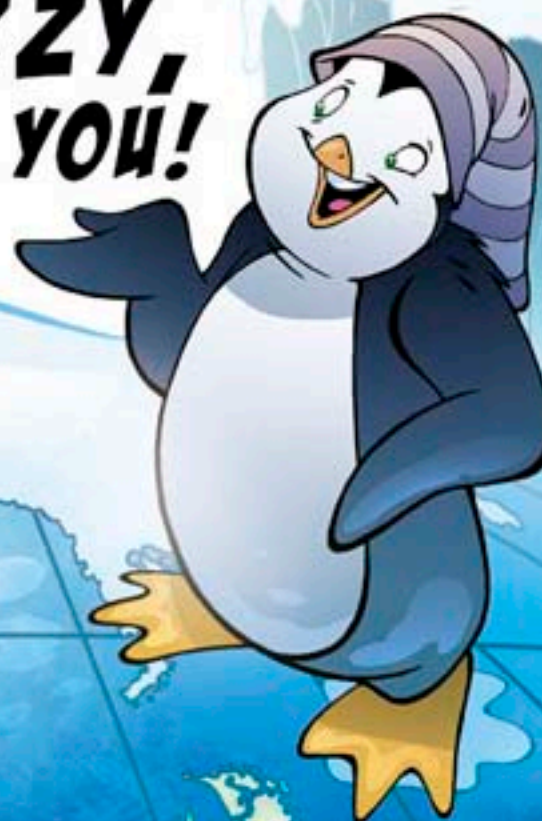
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OZZY PROTECTS YOU!**



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